

07/28/2015

Tobacco Callus

Sterilized biosafety hood with 70% ethanol

Sterilized tools.

Tobacco Callus 1 and 2 were cut up into 5 pieces in the sterile hood with sterile tools and placed gently into the sterile Root and Shoot Media Tubes purchased.

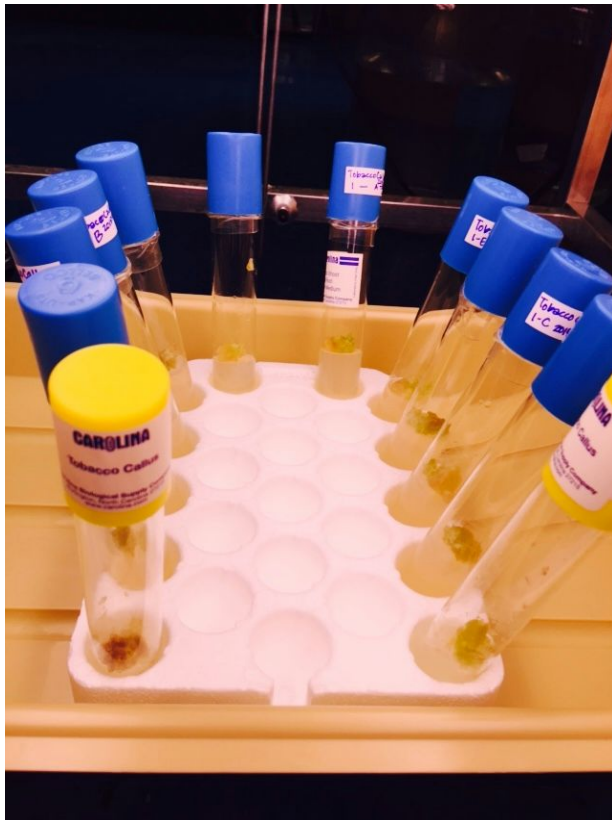
Tubes were then placed in a tray and 16 hour day/8 hour night lighting cycle was set up.

2015728LI Tobacco Callus 1 (A- E)

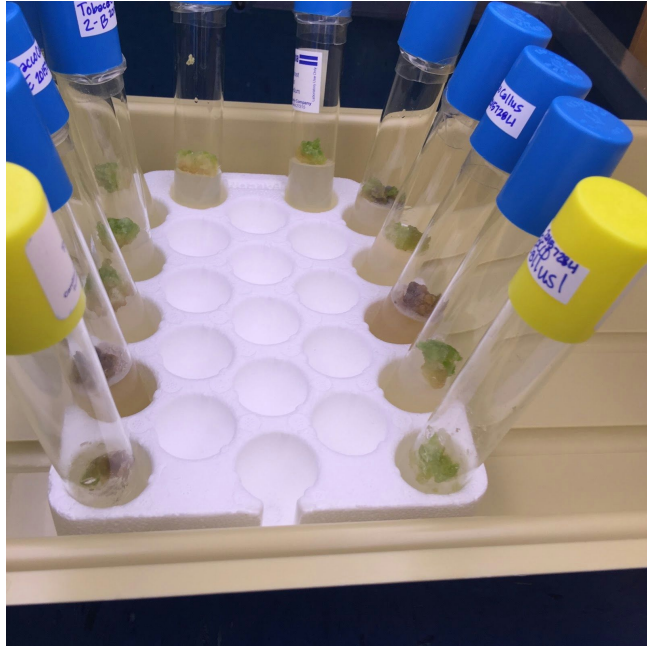
2015728LI Tobacco Callus 2 (A- E)

07/30/2015

Day 2



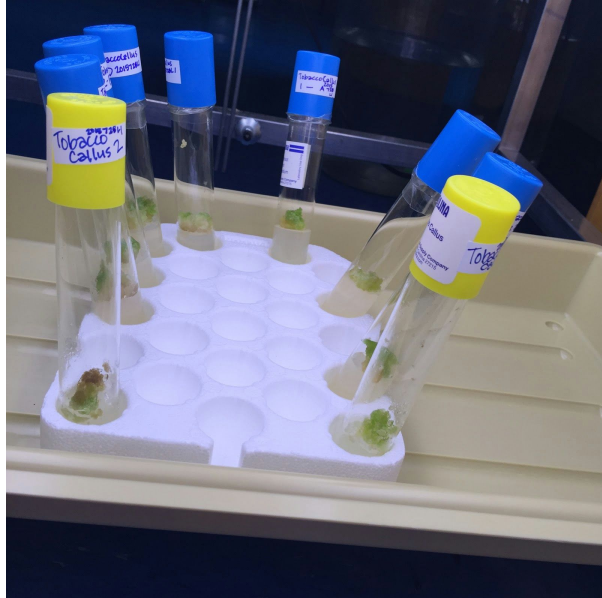
The samples are just resting on the root and shoot medium. Hopeful for growth soon. No change in appearance so far.



08/05/2015
Day 8

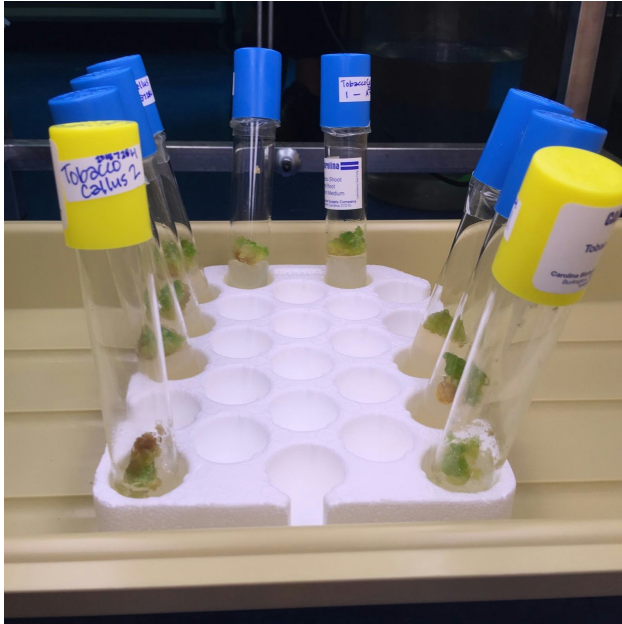
We noticed a few samples were contaminated. We disposed of them. Callus 2-A, 1-E, and 1-B. The actual samples are starting to have a green and brown color to them.

08/07/2015
Day 10



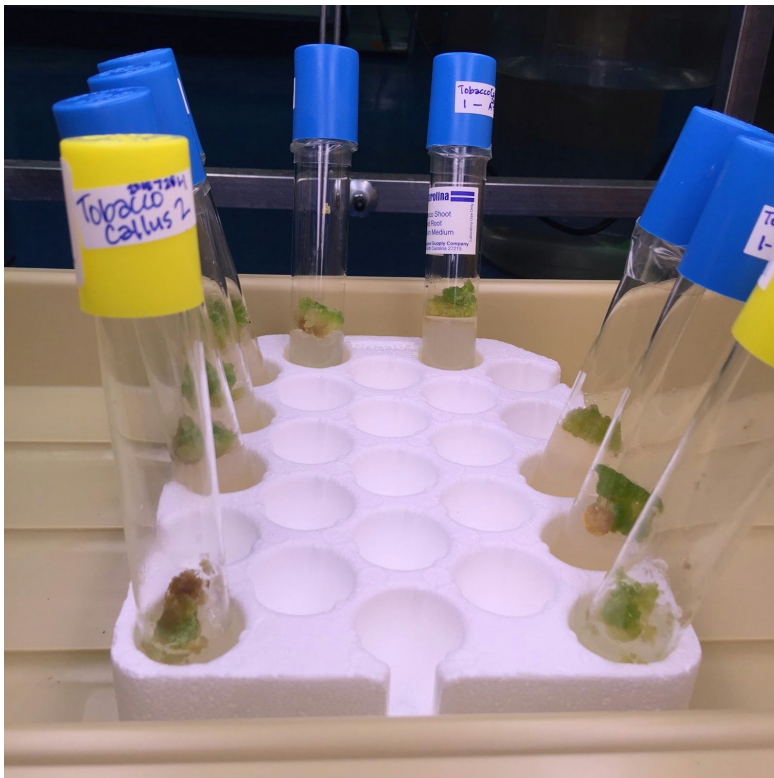
No new evidence of contamination. Will continue on light cycle. Green is becoming more prominent in samples.

08/13/2015
Day 16



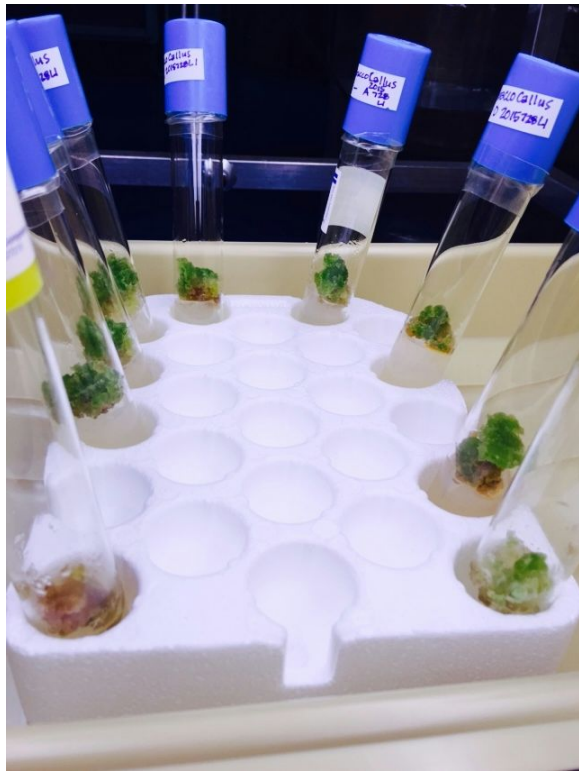
We continue to see green callus form on the top. We are not seeing any formation of roots or shoots as of yet. The callus has doubled in size since the first day of growth.

08/14/2015
Day 17



We are still seeing the green portion of the callus expand. No new evidence of contamination. No new evidence of root formation.

08/17/2015
Day 20



Still no evidence of shoots or roots. The green parts are getting darker. No new evidence of mold or contamination.